

**Documentation of statistics for  
High Growth Enterprises 2015**

## **1 Introduction (S.0)**

The statistics High growth enterprises in Denmark was published the first time in 2008. High growth enterprise as well as Gazelles were at that time measured. However, later the statistics was limited to only include Gazelles. The purpose of the statistics "Gazelles in Denmark" is to illustrate the development in the number of gazelles and jobs created in the growth period.

## **2 Statistical presentation (S.3)**

The statistics counts the number of gazelles in Denmark, as well as jobs created in the growth period. In addition the turnover at the beginning and end of the growth period is available.

The growth indicator is the number of employees. The number of employees is converted into full-time equivalents (FTEs). The number of FTEs is used as a measure of the total amount of work performed by the gazelles employees during the year in question.

The statistics covers only Non-Agricultural Private Sector.

### **2.1 Data description (S.3.1)**

Gazelles are enterprises that are up till 5 years old, that have had an average annual growth of at least 20 per cent. over a three year period, and who had five or more employees in the beginning of the growth period. The population of gazelles in the period 2012-2015 is based on the population of all new enterprises in 2010 and 2011, that had five or more employees in 2012. The indicator of growth is full time employees.

### **2.2 Classification system (S.3.2)**

National figures are published on Danish industry codes while figures are delivered to Eurostat on NACE rev.2

### **2.3 Sector coverage (S.3.3)**

The statistics covers the non-agricultural private sector.

### **2.4 Statistical concepts and definitions (S.3.4)**

Gazelle: A gazelle is a high-growth enterprise that is up to 5 years old with average annual growth greater than 20 pct. per annum over a three year period.

In part, the definition of gazelles follows the definition by the OECD and Eurostat (cf. Eurostat OECD Manual on Business Demography Statistics, 2007 edition) of gazelles. In the manual gazelles are defined as all new enterprises up to five years old, that have 10 or more employees at the beginning of the growth period, and which have an average annual growth of 20 per cent per year, over a three-year period.

The indicator of growth is the number of full-time equivalents (FTEs). The number of FTEs is used as a measure of the total amount of work performed by the gazelles employees during the year in question.

### **2.5 Statistical unit (S.3.5)**

The statistics is published at enterprise level.

### **2.6 Statistical population (S.3.6)**

The population Gazelles constitute the number of new enterprises in t-5 or t-4 with at least 5 full-time employees in t-3 and with at least 20 pct. annually growth from t-3 to t., where t=the reference year of the population.

### **2.7 Reference area (S.3.7)**

The statistics cover all of Denmark.

### **2.8 Time coverage (S.3.8)**

The growth period is 2012-2015 (current publication).

### **2.9 Base period (S.3.9)**

Not relevant for this statistics.

### **2.10 Unit of measure (S.4)**

The unit of measure is number of enterprises.

### **2.11 Reference period (S.5)**

01-01-2015 - 31-12-2015

### **2.12 Frequency of dissemination (S.9)**

The statistics is published annual.

### **2.13 Legal acts and other agreements (S.6.1)**

The statistics is exclusively based on existing administrative data - no information is gathered from external respondents.

Data is currently transmitted to Eurostat on a voluntary basis described in Annex IX, Regulation No 295/2008.

### **2.14 Cost and burden (S.16)**

The statistics is based on administrative registers. Therefore there are no direct cost or burdens associated with the publication of the statistics. Data are collected by the Business Register.

### **2.15 Comment (S.19)**

If additional information is needed please contact Statistics Denmark.

## **3 Statistical processing (S.18)**

The statistics are based on the Business demography statistics and the information regarding surviving firms up to 5 years old. The information of survival is used to the delimitation of the population to be measured. The enterprise's development in number of full-time employment is measured from start of the growing period to the end.

### **3.1 Source data (S.18.1)**

The statistics is based on the: [Business Demography](#).

### **3.2 Frequency of data collection (S.18.2)**

Data are collected annually.

### **3.3 Data collection (S.18.3)**

Data used in the statistics are collected from administrative registers.

### **3.4 Data validation (S.18.4)**

The statistics is based on validated data. The statistics is validated against earlier reference years on industry and regional level.

### **3.5 Data compilation (S.18.5)**

This statistics is based on validated register data. The data treatment include a NACE delimitation and the calculation of growth.

### **3.6 Adjustment (S.18.6)**

No data correction is made.

## **4 Relevance (S.12)**

The statistics is used by ministries and governmental agencies, regional and county authorities as well as private sector institutions and enterprises. Number of gazelles in Denmark is used in analysis of the development of young high-growth enterprises (gazelles). Moreover, it illustrates the creation of new jobs amongst these enterprises in the growth period. No user satisfaction is collected.

#### **4.1 User Needs (S.12.1)**

The statistics is used by ministries and governmental agencies, regional and county authorities as well as private sector institutions and enterprises. The statistics is also used for service tailor made statistics, where data are combined with different sources of data.

#### **4.2 User Satisfaction (S.12.2)**

No user satisfaction is collected. The statistics are used mainly to service applications where for larger tasks, customer satisfaction is collected.

#### **4.3 Data completeness rate (S.12.3)**

The statistics partly complies with the guidelines from: [Eurostat – OECD Manual on Business Demography Statistics](#)

The Danish statistics, however, differs in regard to the cut-off of 10 or more employees. Due to the experience that the higher cut-off is less suitable in a Danish context, the cut-off has been lowered to 5 or more employees in the start of the growth period. The cut-off is used so as to avoid the inclusion of small enterprises that may experience high relative, but small absolute growth.

### **5 Accuracy and reliability (S.13)**

There exist a certain uncertainty regarding the identification of new enterprises, which the statistics Gazelles is based on. The uncertainty associated with the Business Demographic statistics is associated with the references between the entities which mainly comes from the Danish Tax Authorities Business System (WEB), and lack of knowledge of the transfer of activity from one company to another, including the separation of activity. Failure to do so can result in economic and employment data are not correctly linked to the individual units.

#### **5.1 Overall accuracy (S.13.1)**

As the statistics is based on already validated register data of high quality; the overall accuracy is considered high.

#### **5.2 Sampling error (S.13.2)**

Not relevant for this statistics.

#### **5.3 Non-sampling error (S.13.3)**

None.

#### **5.4 Quality management**

Statistics Denmark follows the recommendations on organisation and management of quality given in the Code of Practice for European Statistics (CoP) and the implementation guidelines given in the Quality Assurance Framework of the European Statistical System (QAF). A Working Group on Quality and a central quality assurance function have been established to continuously carry through control of products and processes.

#### **5.5 Quality assurance**

Statistics Denmark follows the principles in the Code of Practice for European Statistics (CoP) and uses the Quality Assurance Framework of the European Statistical System (QAF) for the implementation of the principles. This involves continuous decentralized and central control of products and processes based on documentation following international standards. The central quality assurance function reports to the Working Group on Quality. Reports include suggestions for improvement that are assessed, decided and subsequently implemented.

#### **5.6 Quality assessment (S.11.2)**

The uncertainty associated with the Business Demographic statistics is associated with the references between the entities which mainly comes from the Danish Tax Authorities Business System (WEB), and lack of knowledge of the transfer of activity from one company to another, including the separation of activity. Failure to do so can result in economic and employment data are not correctly linked to the individual units. The problem is being tackled by subjecting, especially the largest firms, to a manual control and error recovery. For businesses with employees, the knowledge on where the employees have been employed during the year. A large shift of employees can mean the transfer of activity to another unit.

More information is available in the Business demography documentation of statistics. [Business Demography](#).

There are currently no calculations on uncertainty .

#### **5.7 Data revision - policy**

Statistics Denmark revises published figures in accordance with the [Revision Policy for Statistics Denmark](#). The common procedures and principles of the Revision Policy are for some statistics supplemented by a specific revision practice.

#### **5.8 Data revision practice (S.17.2)**

Only final figures are published.

### **6 Timeliness and punctuality (S.14)**

The statistics is published once a year. The publication is usually available around 18 months after the end of the reference year. From October 2017 the statistics is published with preliminary data around 10 months after the end of the reference year.

## **6.1 Timeliness and time lag - final results (S.14.1)**

The statistics is published annually. The publication is usually available 18 months after the end of the reference year.

From October 2017 the statistics is published with preliminary data 10 months after the end of the reference year.

## **6.2 Punctuality**

The statistics has not previously been delayed.

## **7 Comparability (S.15)**

The statistics is based on data from the Business demography, which measures the number of enterprise births in Denmark.

The statistics can be compared with the statistics of Gazelles published by Eurostat.

### **7.1 Comparability - geographical (S.15.1)**

The statistics can be compared with the statistics of Gazelles published annually by Eurostat, however, with few exceptions described below.

The definition of new high-growth companies partly follow the OECD and Eurostat definition, see "Eurostat OECD Manual on Business Demography Statistics, 2007 Edition", which defines new high-growth companies (Gazelles) as all new enterprises that are up to five years old, that has 10 or more employees at the start of the growing period and have an average annual growth of more than 72.8 per cent. (20 per cent. Per year) over a three year period.

The Danish statistics differ, however, on the point that the cut-off limit of 10 or more employees at the beginning of growth period is changed to 5 or more employees. This is done as it is estimated that a size-limit of 10 does not apply to a Danish Business structure. The limit of at least five employees are set to avoid small companies with high percentage growth, but with little absolute growth, are categorized as growth entrepreneur.

### **7.2 Comparability over time (S.15.2)**

It should be noted that the population of gazelles varies from reference year to reference year. This is the case, as the start population consist of new enterprises, which in principle should not have existed earlier. The statistics are therefore not suited for longitudinal analyses.

### **7.3 Coherence - cross domain (S.15.3)**

The statistics Gazelles is based on the population of enterprise births published in the Business demography. Business Demography data are also published by Eurostat, including gazelles.

#### **7.4 Coherence - internal (S.15.4)**

Not relevant

### **8 Accessibility and clarity (S.10)**

The data is published in NYT and is available in the StatBank.

#### **8.1 Release calendar**

The publication date appears in the release calendar. The date is confirmed in the weeks before.

#### **8.2 Release calendar access**

The Release Calendar can be accessed on our English website: [Release Calendar](#).

#### **8.3 User access**

Statistics are always published at 9:00 a.m. at the day announced in the release calendar. No one outside of Statistics Denmark can access the statistics before they are published. Theme publications etc. may be published at other times of the day. The National Statistician can decide that such publications may be released before their official publication time, e.g. to the media and other stakeholders.

#### **8.4 News release (S.10.1)**

[NYT](#).

#### **8.5 Publications (S.10.2)**

[New high growth enterprises](#).

The statistics is published in News from statistics Denmark (Danish only).

#### **8.6 On-line database (S.10.3)**

The statistics are published in the StatBank under the subject [Entrepreneurs](#) in the following tables:

- [VIV](#): New high growth enterprises by industry (DB07 10-grouping), variables and time

#### **8.7 Micro-data access (S.10.4)**

Data is available on individual level. Researchers may be granted access to anonymised micro-data. Furthermore, specialized data sets and tables may be produced upon request.

#### **8.8 Other (S.10.5)**

To order tailor-made specialized statistics please write this e-mail: [firma\\_stat@dst.dk](mailto:firma_stat@dst.dk)

### **8.9 Confidentiality - policy (S.7.1)**

[Statistics Denmark confidentiality policy](#). Section 4 regarding Business Statistics.

### **8.10 Confidentiality - data treatment (S.7.2)**

In connection to publication and delivery of customized statistics, a so-called confidentiality test of data is made. The confidentiality test is made on the basis of two criteria:

1. The number criteria: If one data cell contains less than 3 observations (enterprises) employment and financial information can not be published
2. The dominance criteria: If one or two observations (enterprises) contained in one data cell, alone or together constitute a certain percentage of the total turnover of the cell, the turnover and other financial information for this group can not be published.

### **8.11 Documentation on methodology (S.10.6)**

[Eurostat – OECD Manual on Business Demography Statistics](#)

### **8.12 Quality documentation**

Results from the quality evaluation of products and selected processes are available in detail for each statistics and in summary reports for the Working Group on Quality.

## **9 Contact**

The administrative placement of these statistics are in the division of Business Dynamics. The person responsible is Christina Juul Steengaard, tel. +45 39 17 19 45, e-mail: [cjs@dst.dk](mailto:cjs@dst.dk)

### **9.1 Contact organisation**

Statistics Denmark

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